## AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings of claims in the application:

## LISTING OF CLAIMS:

- 1. (original) Product of the biochip type, comprising a flat solid support having a surface covered with a metal capable of coordination bonding with a phosphate group, at least one biopolymer carrying a free phosphate group OP(O)(OH)<sub>2</sub> being immobilized on said surface by ionocovalent bonding between the free phosphate group of the polymer and the metal.
- 2.(original) Product according to claim 1, wherein the biopolymer is a nucleic acid phosphorylated in the 5' position.
- 3.(original) Product according to claim 1, wherein the biopolymer is a nucleic acid phosphorylated in the 3' position.
- 4.(currently amended) Product according to either claim 2 or claim 3 claim 2, characterized in that the nucleic acid has a polyguanine (polyG) spacer group between the body of the nucleic acid and the phosphate group.
- 5. (original) Product according to claim 1, wherein the biopolymer is a phosphorylated protein.
- 6.(original) Product according to claim 1, wherein the biopolymer is a phosphorylated oligo- or poly-saccharide.
- 7.(currently amended) Product according to any one of claims 1 to 6 claim 1, wherein the metal is bound to the surface of the support by way of a spacer molecule.

- 8.(original) Product according to claim 7, wherein the spacer molecule comprises a fatty acid chain carrying a phosphonate group to which the metal binds by ionocovalent bonding.
- 9.(currently amended) Product according to any one of claims 1 to 8 claim 1, wherein the metal is zirconium.
- 10.(original) Product according to claim 8, wherein the spacer molecule is octadecylphosphonic acid and the metal is zirconium.
- 11.(currently amended) Product according to any one of claims 1 to 10 claim 1, wherein the support is glass.
- 12. (original) Product according to claim 1, comprising a sheet of glass having a surface covered with a monolayer of zirconium octadecylphosphonate, at least one nucleic acid carrying a phosphate group in the 5' position being immobilized on said surface by ionocovalent bonding between the phosphate group of the nucleic acid and the zirconium.
- 13. (currently amended) Method for making a product of the biochip type, as defined in any one of claims 1 to 12 claim 1, comprising the immobilization of at least one biopolymer carrying a free phosphate group on a solid support having a surface covered with a metal capable of coordination bonding with a phosphate group, the biopolymer being immobilized on said surface by ionocovalent bonding between the free phosphate group of the polymer and the metal.
- 14. (original) Method according to claim 13, also comprising a step of obtaining the biopolymer carrying a phosphate group.

- 15.(original) Method according to claim 14, wherein the polymer is a nucleic acid phosphorylated enzymatically in the 5' position.
- 16.(currently amended) Kit for the preparation of a product of the biochip type as defined in any one of claims 1 to 12 claim 1, comprising the following elements:
- a solid support having a surface covered with a metal capable of coordination bonding with a phosphate group;
- at least one biopolymer carrying a phosphate group;
- optionally reagents.
- 17. (currently amended) Use of a product of the biochip type as defined in any one of claims 1 to 12 claim 1, for the purpose of screening compounds capable of binding to the immobilized biopolymer.
- 18.(currently amended) Use of a product of the biochip type as defined in any one of claims 1 to 12 claim 1, as an in vitro diagnostic tool.
- 19.(new) Product according to claim 3, characterized in that the nucleic acid has a polyguanine (polyG) spacer group between the body of the nucleic acid and the phosphate group.